

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 October 2005 (06.10.2005)

PCT

(10) International Publication Number
WO 2005/093019 A1

(51) International Patent Classification⁷:
F23G 5/02, F23K 1/00

C10L 5/46,

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:
PCT/IT2004/000154

(22) International Filing Date: 29 March 2004 (29.03.2004)

(25) Filing Language: Italian

(26) Publication Language: English

(71) Applicant (for all designated States except US): **PIRELLI & C. AMBIENTE S.p.A.** [IT/IT]; Via Gaetano Negri, 10, I-20123 Milano (IT).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventor; and

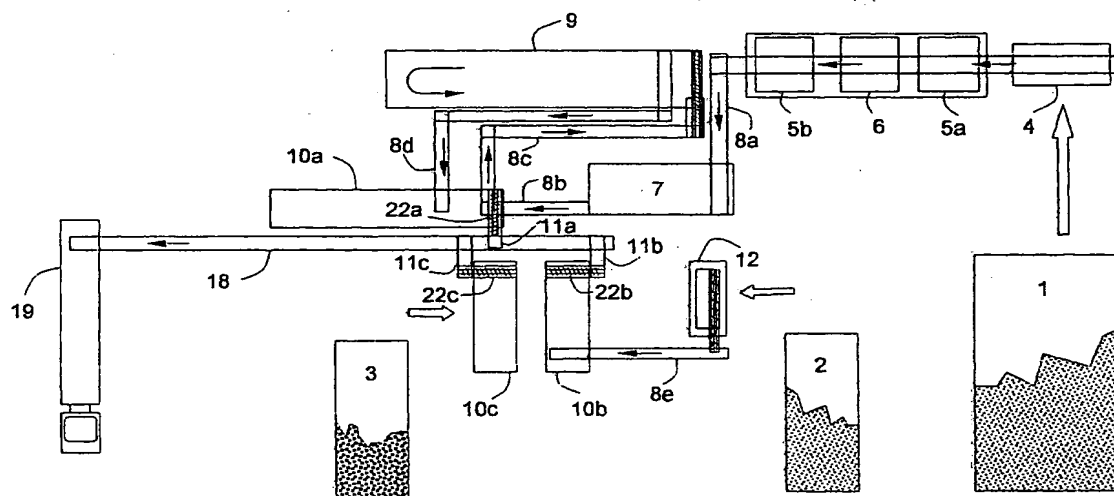
(75) Inventor/Applicant (for US only): **ZANOTTA, Carlo** [IT/IT]; Pirelli & C. Ambiente S.p.A., Via Gaetano Negri, 10, I-20123 Milano (IT).

Published:
— with international search report

(74) Agents: **MARCHI, Massimo et al.**; Marchi & Partners S.r.l., Via Pirelli, 19, I-20124 Milano (IT).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **PROCESS AND PLANT FOR PRODUCING A REFUSE DERIVED SOLID FUEL**



(57) Abstract: Process and plant for producing a refuse derived solid fuel (RDSF), comprising a first component comprising a dry fraction of a solid urban waste (MSW) in a shredded form and at least one second component in a shredded form selected from an elastomeric material and a thermoplastic material, or mixtures thereof, wherein the dry fraction of the MSW, the elastomeric polymer material and/or the thermoplastic polymer material are stored in separate containers and when required are metered and fed in subsequent layers onto a continuous conveyor which discharges into a temporary accumulating container, for example the box body of a motor vehicle, intended to directly feed the combustion plant wherein the RDSF is burnt. In this way there is no need to premix the various fractions of the RDSF during the production stage and to maintain the resulting mixture constantly stirred in order to prevent compaction and/or separation of fractions. In fact mixing between the various fractions only takes place at the end of the production process when the RDSF is placed in the temporary accumulation container which feeds the combustion plant.